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07/17/2003	00000060	<u>1</u>	<u>2001</u>	\$375.00	07/14/2003	CK
07/17/2003	00000061	<u>1</u>	<u>2201</u>	\$84.00	07/14/2003	DA 071380

No Refund

✓
1. An apparatus for providing roof support in an underground mine,
comprising:

(a) a round, dome-shaped support member having an extended
lateral surface for contacting an inside roof of an underground mine;

5 and

(b) a center aperture in said support member for accommodating a
roof bolt such that said roof bolt can be passed through said support
member to secure said support member to the roof of said underground
mine.

10 2. The apparatus as set forth in Claim 1, further comprising a base
plate associated with said roof bolt, wherein said roof bolt passing
through said base plate is adapted such that said support member is
interposed between said base plate and the inside roof of said
underground mine.

15 3. The apparatus as set forth in Claim 1, wherein said support
member is recessed and said extended lateral surface comprises a
circular configuration in the general form of a plate.

4. The apparatus as set forth in Claim 3, wherein said support
member features a center deflection with respect to the radial edge of
20 said support member such that said support member is convex with
respect to the mine roof surface.

5. The apparatus as set forth in Claim 2, wherein said support member is elliptical with a circular configuration in the form of a plate.

6. The apparatus as set forth in Claim 5, wherein said support member features a center deflection with respect to the radial edge of said support member such that said support member is convex with respect to the mine roof surface.

7. In combination with a roof bolt and associated base plate used for primary roof support in an underground mine, the improvement comprising: a round dome-shaped support member having an extended lateral surface for contacting an inside roof of an underground mine, and further defining an aperture therethrough such that said roof bolt can be passed through said base plate and the aperture of said support member to secure said support member to the inside roof of said underground mine, with said support member interposed between said base plate and the inside roof of said underground mine.

8. The apparatus as set forth in Claim 7, wherein said support member has a substantially circular or elliptical configuration.

9. The apparatus as set forth in Claim 8, wherein said support member features a center deflection with respect to the radial edge of said support member such that said support member is convex with respect to the mine roof surface.

✓
10. A method for providing primary and secondary roof support in a underground mine, comprising the steps of:

(a) drilling a hole through a roof of the underground mine and into upper level rock strata;

5 (b) inserting a container of adhesive material into said hole;

(c) positioning a lateral support member adjacent the roof of said underground mine centered over said hole;

(d) positioning a round dome-shaped base plate adjacent said lateral support member; and

10 (e) inserting a roof bolt through said base plate and said support member into said hole, the insertion of said roof bolt fracturing the container of adhesive material, thus allowing said adhesive material to be distributed around said roof bolt, securing said roof bolt in said hole and securing said base plate and support
15 member to the roof of said underground mine for providing primary and secondary roof support.

11. The method as set forth in Claim 10, wherein said support member features a center deflection with respect to the radial edge of said support member such that said support member is convex with respect to
20 the mine roof surface.

✓ 12. A roof bolt plate apparatus, comprising:

(a) a round or elliptical dome-shaped plate;

(b) a recessed center higher than the outer rim; and

(c) strengthening ribs to adjust the strength as needed for extreme roof conditions.

13. A roof bolt plate apparatus as set forth in Claim 12, further comprising;

5 (d) an outer rim only as wide as the material used to produce the plates.

14. A roof bolt plate apparatus as set forth in Claim 13, wherein said roof bolt plate comprises a positive pressure roof support.

✓
10 15. A method of supporting a roof in an underground mine, comprising:

(a) providing a plate acting as a lock washer to the roof bolt;

(b) providing a round or elliptical dome-shaped plate having apertures for hanging cables;

15 (c) providing a plate having a recessed center lower than the outer rim and having a recessed center such that the head of the bolt will be partially protected, when installed in the roof;

(d) providing a plate outer rim conforming to regular or irregular roof surfaces; and

20 (e) providing a plate adjustable in strength by adding a rib to the domed area of the plate.

16. A method of supporting a roof in an underground mine as set forth in Claim 15, further comprising installing and monitoring plate effectiveness by the lock washer effect in the mine.

17. A method as set forth in Claim 15, wherein said safety plate recessed center reduces injuries to personnel and damage to the roof control system by passing equipment.

18. A method as set forth in Claim 15, further comprising providing a system for hanging cables and wires and maintaining dangerous electrical cables and wires close to the roof, and out of harms way.

19. A method as set forth in Claim 16, wherein said safety plate recessed center reduces injuries to personnel and damage to the roof control system by passing equipment.

20. A method as set forth in Claim 17, further comprising providing a system for hanging cables and wires and maintaining dangerous electrical cables and wires close to the roof, and out of harms way.

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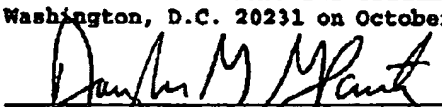
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Applicants: Bert W. Slater) Atty. Dock.: BWS01 (As Amended)
Serial No.: 10/619,232) Examiner:
Filed: July 14, 2003) Art Unit: 3673
For: Roof Bolt Bearing)
Plate and Method)
for an Underground)
Mine)

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I hereby certify that this correspondence is being facsimile at (703)-746-9195 addressed to: Office of Initial Patent Examination's, United States Patent and Trademark Office, Washington, D.C. 20231 on October 27, 2003.


Douglas G. Glantz, Reg. No. 29,640
Date of signature: October 27, 2003

Office of Initial Patent Examination's
Filing Receipt Corrections
Alexandria, VA 22313
Sir:

LETTER OF CORRECTION

Please enter the enclosed Letter of Correction in Response to the Filing Receipt mailed October 10, 2003 in the above-identified patent application.

The Attorney Docket Number on the filing receipt is incorrect.

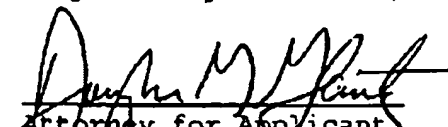
Please change the Attorney Docket Number to --BWS01--.

A marked-up copy of the Filing Receipt mailed October 10, 2003 is enclosed with markings to show the changes made.

Reconsideration of this application is requested.

Respectfully submitted,

October 27, 2003
Douglas G. Glantz
Attorney At Law
5260 Deborah Court
Doylestown, PA 18901
Voice (215) 794-9775
Fax (215) 794-8860
DGG/mnr


Attorney for Applicant
Reg. No. 29,640

PATENT
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Applicant: Bert W. Slater)
Serial No.: 10/619,232)
Filed: July 14, 2003)
For: Roof Bolt Bearing Plate)
And Method for an)
Underground Mine)

Examiner:

Group Art Unit: 3673

Atty. Docket: 2003-1001

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Commissioner of Patents and Trademarks
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Sir:

REFUND REQUEST AND STATUS INQUIRY

Further to the Refund Request dated September 30, 2003,
Applicant requests the Refund of the Refund Request in the above-
captioned U.S. patent application.

A utility patent application with four (4) Independent
Claims was filed in the USPTO on July 14, 2003 in the above-
identified patent application. The filing fees were paid by
check. The filing fee check only paid for three (3) Independent
Claims. Four (4) Independent Claims were filed with the
application.

Applicant is a small entity and was indicated as such on the
Utility Patent Application Transmittal PTO/SB/05 and on the Fee
Transmittal PTO/SB/17.

A charge of \$84.00 was made to Deposit Account 07-1380, copy
enclosed. This represents an Overcharge of \$42.00.

The fee should have been \$42.00 for the additional
Independent Claim in excess of three (3) for a small entity.

Accordingly, the charge of \$84.00 should have been \$42.00
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Please refund \$42.00 to Deposit Account 07-1380.

The refund may be refunded to Deposit Account 07-1380. A
duplicate copy of this page is enclosed.

Respectfully submitted,

March 23, 2004

Douglas G. Glantz
Attorney At Law
5260 Deborah Court
Doylestown, PA 18901-1949
Voice: (215) 794-9775
Fax: (215) 794-8860

Douglas G. Glantz
Reg. No. 29,640



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DOUGLAS G GLANTZ
ATTORNEY AT LAW
5260 DEBORAH COURT

DOYLESTOWN PA 18901-1949

FINA

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